Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Cancelled)

2. (Currently amended) A lead-free solder used to connection connecting a connection lead to a material, comprising:

an alloy composition containing 0.002 to 0.015% by mass of phosphorus with the balance consisting of tin;

wherein bismuth, antimony, gallium and titanium are not added to said alloy composition, and

said alloy composition is capable of soldering a metallic material with no oxide film on its surface.

- 3. (Cancelled)
- 4. (Currently amended) A connection lead comprising:
- a copper strip or other strip conductor; and

a plating provided on at least one side of the strip constructor, said plating being formed of a lead-free solder composed mainly of tin,

wherein said plating containing contains 0.002 to 0.015% by mass of phosphorus with the balance consisting of tin, and having comprises a shape such that the plating in a widthwise direction of the strip conductor has a bulge as viewed

in section with an apex being located at a proper position in the widthwise direction of the strip conductor, and wherein bismuth, antimony, gallium and titanium are not added to said plating, and said plating is capable of soldering a metallic material with no oxide film on its surface.

5. (Currently amended) The connection lead according to claim 4, wherein: the bulge is in the form of an arc, a triangle, or stairs of which the apex is located at a proper position in the widthwise direction of the strip conductor.

6. (Canceled)

7. (Currently amended) The connection lead according to claim 4, wherein: the strip connector on its both sides is exposed or is covered with the lead-free solder constituting the plating.

8-13. (Cancelled)

- 14. (Currently amended) The lead free solder according to claim 2, wherein: the alloy composition further containing contains 2.0 to 5.0% by mass of silver and 0.01 to 2.0% by mass of copper.
- 15. (Currently amended) An alloy composition for a lead free solder used to connection connecting a connection lead to a material, comprising:
 - 0.002 to 0.015% by mass of phosphorus; and tin,

wherein bismuth, antimony, gallium and titanium are not added to said alloy composition, and said alloy composition is capable of soldering a metallic material with no oxide film on its surface.

16. (Currently amended) The alloy composition according to claim 15, wherein:

the tin forms the balance of the composition.

17. (Currently amended) An alloy composition for a lead free solder used to connection connecting a connection lead to a material, consisting of:

0.002 to 0.015% by mass of phosphorus;

2.0 to 5.0% by mass of silver;

0.01 to 2.0% by mass of copper; and

tin.

18. (Currently amended) The connection lead according to claim 4, wherein: said plating further containing contains 2.0 to 5.0% by mass of silver and 0.01 to 2.0% by mass of copper.

19. (Previously presented) The alloy composition according to claim 15, further comprising:

2.0 to 5.0% by mass of silver; and

0.01 to 2.0% by mass of copper.

20. (Currently amended) The lead free solder according to claim 2, wherein:

said alloy composition excludes bismuth, antimony, gallium and titanium.

- 21. (Currently amended) The connection lead according to claim 4, wherein: said plating excludes bismuth, antimony, gallium and titanium.
- 22. (Currently amended) The alloy composition according to claim 15, wherein:

said alloy composition excludes bismuth, antimony, gallium and titanium.

23. (Cancelled)

24. (New) A lead-free solder, comprising:

an alloy composition containing 0.002 to 0.015% by mass of phosphorus with the balance consisting of tin;

wherein said alloy composition is capable of generating on its surface an oxide film with a thickness of less than 6 µm in a range of 250 to 350 degrees centigrade.

- 25. (New) The lead-free solder according to claim 24, wherein the alloy composition is bismuth, antimony, gallium and titanium free.
- 26. (New) A lead-free solder, comprising: an alloy composition that contains 0.002 to 0.015% by mass of phosphorus with a balance consisting of tin, and that is bismuth, antimony, gallium and titanium free.

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27. (New) The lead-free solder according to claim 26, wherein the alloy composition is capable of forming an oxide film on its surface, with the formed oxide film having a thickness of less than 6 μ m in a range of 250 to 350 degrees centigrade.